

Ekhard K H Salje

List of Publications by Year in descending order

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583
papers

21,665
citations

10351

72
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22102

113
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599
all docs

599
docs citations

599
times ranked

10099
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation effects in crystalline ceramics for the immobilization of high-level nuclear waste and plutonium. <i>Journal of Materials Research</i> , 1998, 13, 1434-1484.	1.2	842
2	Domain Wall Conductivity in La-Doped BiFeO_3 . <i>Physical Review Letters</i> , 2010, 105, 197603.	2.9	357
3	Ferroelastic Materials. <i>Annual Review of Materials Research</i> , 2012, 42, 265-283.	4.3	303
4	Spontaneous strain as a determinant of thermodynamic properties for phase transitions in minerals. <i>European Journal of Mineralogy</i> , 1998, 10, 621-691.	0.4	277
5	Elastic anomalies in minerals due to structural phase transitions. <i>European Journal of Mineralogy</i> , 1998, 10, 693-812.	0.4	275
6	Sheet superconductivity in twin walls: experimental evidence of. <i>Journal of Physics Condensed Matter</i> , 1998, 10, L377-L380.	0.7	242
7	Direct Observation of Ferrielectricity at Ferroelastic Domain Boundaries in CaTiO_3 by Electron Microscopy. <i>Advanced Materials</i> , 2012, 24, 523-527.	11.1	225
8	Order-parameter saturation and low-temperature extension of Landau theory. <i>European Physical Journal B</i> , 1991, 82, 399-404.	0.6	222
9	Multiferroic Domain Boundaries as Active Memory Devices: Trajectories Towards Domain Boundary Engineering. <i>ChemPhysChem</i> , 2010, 11, 940-950.	1.0	222
10	Statistical Similarity between the Compression of a Porous Material and Earthquakes. <i>Physical Review Letters</i> , 2013, 110, 088702.	2.9	213
11	Transformation processes in LaAlO_3 : Neutron diffraction, dielectric, thermal, optical, and Raman studies. <i>Physical Review B</i> , 2005, 72, .	1.1	211
12	Physical properties and phase transitions in WO_3 . <i>The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography</i> , 1975, 31, 356-359.	0.6	209
13	The orthorhombic phase of WO_3 . <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , 1977, 33, 574-577.	0.4	206
14	Calibration of excess thermodynamic properties and elastic constant variations associated with the α & β phase transition in quartz. <i>American Mineralogist</i> , 1998, 83, 2-22.	0.9	197
15	The crystal structure of triclinic WO_3 . <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , 1978, 34, 1105-1111.	0.4	185
16	Crackling Noise in Disordered Materials. <i>Annual Review of Condensed Matter Physics</i> , 2014, 5, 233-254.	5.2	181
17	Lattice dynamics of WO_3 . <i>The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography</i> , 1975, 31, 360-363.	0.6	164
18	Is "metamictization" of zircon a phase transition?. <i>American Mineralogist</i> , 1999, 84, 1107-1116.	0.9	163

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19	Metamictization of zircon: Raman spectroscopic study. Journal of Physics Condensed Matter, 2000, 12, 1915-1925.	0.7	163
20	Domain-wall engineering and topological defects in ferroelectric and ferroelastic materials. Nature Reviews Physics, 2020, 2, 634-648.	11.9	154
21	Ferrielectric Twin Walls in CaTiO_3 . Physical Review Letters, 2008, 101, 097602.	2.9	148
22	Domains within Domains and Walls within Walls: Evidence for Polar Domains in Cryogenic SrTiO_3 . Physical Review Letters, 2013, 111, 247603.	2.9	145
23	Low-frequency superelasticity and nonlinear elastic behavior of SrTiO_3 crystals. Physical Review B, 2000, 61, 946-956.	1.1	144
24	Order parameter coupling and chirality of domain walls. Journal of Physics Condensed Matter, 1991, 3, 5163-5169.	0.7	140
25	Domain boundary engineering. Phase Transitions, 2009, 82, 452-469.	0.6	138
26	Anderson transition and intermediate polaron formation in WO_{3-x} Transport properties and optical absorption. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1984, 50, 607-620.	0.6	137
27	Dynamical excitation and anelastic relaxation of ferroelastic domain walls in LaAlO_3 . Physical Review B, 2004, 69, .	1.1	137
28	Twin formation and structural modulations in orthorhombic and tetragonal $\text{YBa}_2(\text{Cu}_{1-x}\text{Co}_x)_3\text{O}_{7-\delta}$. Philosophical Magazine Letters, 1989, 60, 241-248.	0.5	135
29	Thermodynamics of sodium feldspar II: Experimental results and numerical calculations. Physics and Chemistry of Minerals, 1985, 12, 99-107.	0.3	132
30	Amorphization in zircon: evidence for direct impact damage. Journal of Physics Condensed Matter, 2000, 12, 2401-2412.	0.7	125
31	Temperature dependence of the domain wall width in LaAlO_3 . Journal of Applied Physics, 1999, 85, 722-727.	1.1	124
32	Thermally activated avalanches: Jamming and the progression of needle domains. Physical Review B, 2011, 83, .	1.1	122
33	Thermodynamics of sodium feldspar I: Order parameter treatment and strain induced coupling effects. Physics and Chemistry of Minerals, 1985, 12, 93-98.	0.3	119
34	Phase transitions in ferroelastic and co-elastic crystals. Ferroelectrics, 1990, 104, 111-120.	0.3	119
35	Trapping of oxygen vacancies on twin walls of CaTiO_3 : a computer simulation study. Journal of Physics Condensed Matter, 2003, 15, 2301-2307.	0.7	118
36	Domain Wall Damping and Elastic Softening in SrTiO_3 : Evidence for Polar Twin Walls. Physical Review Letters, 2012, 109, 187601.	2.9	118

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37	The cubic-tetragonal phase transition in strontium titanate: excess specific heat measurements and evidence for a near-tricritical, mean field type transition mechanism. Journal of Physics Condensed Matter, 1998, 10, 5535-5543.	0.7	117
38	Avalanche criticality in the martensitic transition of Cu alloy. A. Physical Review B, 2010, 81, .	1.1	114
39	The degree and nature of radiation damage in zircon observed by ^{29}Si nuclear magnetic resonance. Journal of Applied Physics, 2001, 89, 2084-2090.	1.1	112
40	Structural states of Mg-cordierite I: Order parameters from synchrotron X-ray and NMR data. Physics and Chemistry of Minerals, 1987, 14, 446-454.	0.3	102
41	Autocorrelation analysis of infrared spectra from minerals. European Journal of Mineralogy, 2000, 12, 503-519.	0.4	102
42	Annealing of alpha-decay damage in zircon: a Raman spectroscopic study. Journal of Physics Condensed Matter, 2000, 12, 3131-3148.	0.7	102
43	Phase transitions in langbeinites I: Crystal chemistry and structures of K-double sulfates of the langbeinite type $M_2 + K_2(\text{SO}_4)_3$, $M = \text{Mg, Ni, Co, Zn, Ca}$. Physics and Chemistry of Minerals, 1986, 13, 17-24.	0.3	101
44	The W_5^+ polaron in crystalline low temperature WO_3 ESR and optical absorption. Solid State Communications, 1980, 33, 333-336.	0.9	100
45	Crystal structure and paramagnetic behaviour of. Journal of Physics Condensed Matter, 1997, 9, 6563-6577.	0.7	100
46	Application of real-time, stroboscopic x-ray diffraction with dynamical mechanical analysis to characterize the motion of ferroelastic domain walls. Journal of Applied Physics, 2004, 95, 1706-1717.	1.1	100
47	Domain boundary-dominated systems: adaptive structures and functional twin boundaries. Advances in Physics, 2014, 63, 267-326.	35.9	100
48	Phenomena due to strain coupling in phase transitions. Physical Review Letters, 1991, 66, 2480-2483.	2.9	97
49	Conduction bipolarons in low-temperature crystalline WO_{3-x} . Journal of Physics C: Solid State Physics, 1980, 13, L1067-L1072.	1.5	96
50	High-temperature enthalpy at the orientational order-disorder transition in calcite: implications for the calcite/argonite phase equilibrium. Contributions To Mineralogy and Petrology, 1989, 101, 479-484.	1.2	96
51	Hard mode spectroscopy: The concept and applications. Phase Transitions, 1997, 63, 1-75.	0.6	96
52	Sheet superconductivity in : crystal structure of the tetragonal matrix. Journal of Physics Condensed Matter, 1998, 10, L569-L574.	0.7	94
53	Cubic-tetragonal phase transition in SrTiO_3 revisited: Landau theory and transition mechanism. Phase Transitions, 1999, 68, 501-522.	0.6	94
54	Application of Landau theory for the analysis of phase transitions in minerals. Physics Reports, 1992, 215, 49-99.	10.3	91

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55	The theory of fluctuations and texture embryos in structural phase transitions mediated by strain. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 3679-3696.	0.7	89
56	Nanoscale properties of thin twin walls and surface layers in piezoelectric $\text{WO}_3 \cdot x$. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	89
57	Phonon spectra of alkali feldspars; phase transitions and solid solutions. <i>American Mineralogist</i> , 1996, 81, 92-104.	0.9	87
58	Hard mode Spectroscopy: Experimental studies of structural phase transitions. <i>Phase Transitions</i> , 1992, 37, 83-110.	0.6	83
59	The effect of reduction and temperature on the electronic core levels of tungsten and molybdenum in WO_3 and $\text{W}_x\text{Mo}_{1-x}\text{O}_3$. A photoelectron spectroscopic study. <i>Journal of Solid State Chemistry</i> , 1979, 29, 237-251.	1.4	82
60	Lattice parameters and spontaneous strain in AX ₂ polytypes: CdI_2 , PbI_2 , SnS_2 and SnSe_2 . <i>Journal of Applied Crystallography</i> , 1989, 22, 622-623.	1.9	81
61	Mesoscopic structures in ferroelastic crystals: needle twins and right-angled domains. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 8477-8495.	0.7	80
62	Thermodynamics of plagioclase II: Temperature evolution of the spontaneous strain at the $\text{Pb}1 \rightarrow \text{Pb}1$ phase transition in anorthite. <i>Physics and Chemistry of Minerals</i> , 1987, 14, 189-195.	0.3	79
63	In situ observation of the polytypic phase transition 2H-12R in PbI_2 : investigations of the thermodynamic structural and dielectric properties. <i>Journal of Physics C: Solid State Physics</i> , 1987, 20, 4077-4096.	1.5	78
64	On the thickness of ferroelastic twin walls in lead phosphate $\text{Pb}_3(\text{PO}_4)_2$ an X-ray diffraction study. <i>Phase Transitions</i> , 1994, 48, 135-148.	0.6	78
65	Intrinsic activation energy for twin-wall motion in the ferroelastic perovskite CaTiO_3 . <i>Physical Review B</i> , 2006, 73, .	1.1	78
66	Avalanches in compressed porous SiO_2 -based materials. <i>Physical Review E</i> , 2014, 90, 022405.	0.8	76
67	Low-temperature phase diagrams: non-linearities due to quantum mechanical saturation of order parameters. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 1421-1430.	0.7	75
68	Structural changes in zircon under β -decay irradiation. <i>Physical Review B</i> , 2002, 65, .	1.1	75
69	Direct evidence of polar nature of ferroelastic twin boundaries in CaTiO_3 by second harmonic generation microscope. <i>Physical Review B</i> , 2014, 89, .		
70	Crystal structure and charge carrier concentration of W_8O_{49} . <i>Journal of Solid State Chemistry</i> , 1981, 36, 45-51.	1.4	74
71	Origin of tweed texture in the simulation of a cuprate superconductor. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 497-518.	0.7	74
72	Ferroelastic phases in $\text{Pb}_3(\text{PO}_4)_2 \leftrightarrow \text{Pb}_3(\text{AsO}_4)_2$; X-ray and optical experiments. <i>The Acta Crystallographica Section A, Crystal Physics, Diffraction and General Crystallography</i> , 1981, 37, 145-153.	0.6	73

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73	Microstructures in high T _c superconductors. Superconductor Science and Technology, 1991, 4, 93-97.	1.8	73
74	Phase transition(s) in titanite CaTiSiO ₅ : An infrared spectroscopic, dielectric response and heat capacity study. Physics and Chemistry of Minerals, 1995, 22, 41.	0.3	72
75	Direct Observation of Ferroelectric Domain Walls in LiNbO ₃ : Wall Meanders, Kinks, and Local Electric Charges. Advanced Functional Materials, 2016, 26, 7599-7604.	7.8	72
76	Order parameter saturation at low temperatures -numerical results for displacive and O/D systems. Ferroelectrics, 1991, 124, 185-188.	0.3	71
77	A TEM investigation of natural metamict zircons: structure and recovery of amorphous domains. Physics and Chemistry of Minerals, 2000, 27, 545-556.	0.3	71
78	The noise of the needle: Avalanches of a single progressing needle domain in LaAlO ₃ . Applied Physics Letters, 2010, 97, .	1.5	70
79	Kinetic rate laws as derived from order parameter theory I: Theoretical concepts. Physics and Chemistry of Minerals, 1988, 15, 336-348.	0.3	68
80	Line-broadening effects in the powder infrared spectrum of apatite. Physics and Chemistry of Minerals, 2011, 38, 111-122.	0.3	68
81	Failure mechanism in porous materials under compression: crackling noise in mesoporous SiO ₂ . Philosophical Magazine Letters, 2011, 91, 554-560.	0.5	68
82	Imaging and tuning polarity at SrTiO ₃ domain walls. Nature Materials, 2017, 16, 1203-1208.	13.3	68
83	Structural phase transition in mixed crystals W _x MO _{1-x} O ₃ . Journal of Solid State Chemistry, 1978, 25, 239-250.	1.4	67
84	Specific-heat measurements and critical exponents of the ferroelastic phase transition in Pb ₃ (PO ₄) ₂ and Pb ₃ (P _{1-x} As _x O ₄) ₂ . Physical Review B, 1983, 28, 6510-6518.	1.1	67
85	Phase transitions in leucite: X-ray diffraction studies. Physics and Chemistry of Minerals, 1989, 16, 714.	0.3	67
86	Ferroelastic phase transitions: structure and microstructure. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, 3-18.	0.3	66
87	Infrared spectroscopic analysis of zircon: Radiation damage and the metamict state. Journal of Physics Condensed Matter, 2001, 13, 3057-3071.	0.7	65
88	Infrared and Raman spectra of ZrSiO ₄ experimentally shocked at high pressures. Mineralogical Magazine, 2004, 68, 801-811.	0.6	65
89	Impact of self-irradiation damage on the aqueous durability of zircon (ZrSiO ₄): implications for its suitability as a nuclear waste form. Journal of Physics Condensed Matter, 2003, 15, L597-L605.	0.7	64
90	Trapping of oxygen vacancies in the twin walls of perovskite. Physical Review B, 2010, 81, .	1.1	64

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91	Elastic excitations in BaTiO ₃ single crystals and ceramics: Mobile domain boundaries and polar nanoregions observed by resonant ultrasonic spectroscopy. <i>Physical Review B</i> , 2013, 87, .	1.1	63
92	Phase transitions in Pb ₃ (P _{1-x} As _x O ₄) ₂ : influence of the central peak and flip mode on the Raman scattering of hard modes. <i>Journal of Physics C: Solid State Physics</i> , 1983, 16, 5233-5243.	1.5	62
93	On the displacive character of the phase transition in quartz: a hard-mode spectroscopy study. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 571-577.	0.7	62
94	Relaxations near surfaces and interfaces for first-, second- and third-neighbour interactions: theory and applications to polytypism. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 9779-9794.	0.7	62
95	Flexoelectricity and the polarity of complex ferroelastic twin patterns. <i>Physical Review B</i> , 2016, 94, .	1.1	62
96	Thermodynamics of plagioclases I: Theory of the $1 - \text{Par } 1$ phase transition in anorthite and Ca-rich plagioclases. <i>Physics and Chemistry of Minerals</i> , 1987, 14, 181-188.	0.3	60
97	Influence of lattice imperfections on the transition temperatures of structural phase transitions: The plateau effect. <i>Phase Transitions</i> , 1991, 35, 61-74.	0.6	60
98	Needle twins and right-angled twins in minerals; comparison between experiment and theory. <i>American Mineralogist</i> , 1998, 83, 811-822.	0.9	60
99	The phase diagram calcite-aragonite as derived from the crystallographic properties. <i>Contributions To Mineralogy and Petrology</i> , 1976, 55, 55-67.	1.2	58
100	Lattice parameters, spontaneous strain and phase transitions in Pb ₃ (PO ₄) ₂ . <i>Acta Crystallographica Section B: Structural Science</i> , 1993, 49, 387-392.	1.8	57
101	Evidence of hexagonal diamond in plasma-deposited carbon films. <i>Journal of Materials Science</i> , 1994, 29, 4962-4966.	1.7	57
102	Dehydroxylation, proton migration, and structural changes in heated talc: An infrared spectroscopic study. <i>American Mineralogist</i> , 2006, 91, 816-825.	0.9	57
103	Analysis of crackling noise using the maximum-likelihood method: Power-law mixing and exponential damping. <i>Physical Review E</i> , 2017, 96, 042122.	0.8	56
104	Jerky elasticity: Avalanches and the martensitic transition in Cu _{74.08} Al _{23.13} Be _{2.79} shape-memory alloy. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	55
105	Atomistic modelling of radiation damage in zircon. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 1947-1959.	0.7	54
106	The phase equilibrium between sillimanite and andalusite as determined from lattice vibrations. <i>Contributions To Mineralogy and Petrology</i> , 1982, 79, 56-67.	1.2	53
107	Dielectric properties and polaronic conductivity of WO ₃ and W _x Mo _{1-x} O ₃ . <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1983, 47, 229-245.	0.6	53
108	Twinning in tetragonal leucite. <i>Physics and Chemistry of Minerals</i> , 1988, 16, 298.	0.3	53

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109	X-ray diffraction study of the orientational order/disorder transition in NaNO ₃ : Evidence for order parameter coupling. <i>Physics and Chemistry of Minerals</i> , 1989, 16, 790-798.	0.3	53
110	Transition to a new tetragonal phase of WO ₃ : crystal structure and distortion parameters. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 4143-4156.	0.7	53
111	Localized defects in radiation-damaged zircon. <i>Acta Crystallographica Section B: Structural Science</i> , 2000, 56, 947-952.	1.8	53
112	Noise of collapsing minerals: Predictability of the compressional failure in goethite mines. <i>American Mineralogist</i> , 2013, 98, 609-615.	0.9	53
113	Thin domain walls in YBa ₂ Cu ₃ O _{7-δ} and their rocking curves an x-ray diffraction study. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 225, 111-116.	0.6	52
114	Recrystallization of almost fully amorphous zircon under hydrothermal conditions: An infrared spectroscopic study. <i>Journal of Nuclear Materials</i> , 2003, 320, 280-291.	1.3	52
115	Influence of point defects on the distribution of twin wall widths. <i>Physical Review B</i> , 2005, 72, .	1.1	52
116	Coupling of order parameters, chirality, and interfacial structures in multiferroic materials. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 142203.	0.7	52
117	Ferroelectric switching and scale invariant avalanches in BaTiO_3 . <i>Physical Review Materials</i> , 2019, 3, .	0.9	52
118	Annealing of tweed microstructure in high T _c superconductors studied by a computer simulation. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 839-847.	1.9	51
119	Order parameter saturation in LaAlO ₃ . <i>Journal of Physics Condensed Matter</i> , 2002, 14, 10131-10144.	0.7	51
120	Surface structure of domain walls. <i>Journal of Physics Condensed Matter</i> , 1998, 10, L359-L366.	0.7	50
121	Temperature dependence of IR absorption of hydrous/hydroxyl species in minerals and synthetic materials. <i>American Mineralogist</i> , 2007, 92, 1502-1517.	0.9	50
122	Magnetoelastic coupling and multiferroic ferroelastic/magnetic phase transitions in the perovskite KMnF_3 . <i>Physical Review B</i> , 2012, 85, .	1.1	50
123	Crystallography and structural phase transitions, an introduction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1991, 47, 453-469.	0.3	49
124	Dynamic elastic response of KMnF_3 . Elastic softening and domain freezing. <i>Physical Review B</i> , 2009, 80, .	1.1	49
125	Polar precursor ordering in BaTiO ₃ detected by resonant piezoelectric spectroscopy. <i>Applied Physics Letters</i> , 2013, 103, 142902.	1.5	49
126	Spontaneous strain at the structural phase transition in NaNO ₃ . <i>Physics and Chemistry of Minerals</i> , 1988, 15, 605-611.	0.3	48

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127	Crackling noise during failure of alumina under compression: the effect of porosity. Journal of Physics Condensed Matter, 2013, 25, 292202.	0.7	48
128	Thickness of pericline twin walls in anorthoclase: an X-ray diffraction study. European Journal of Mineralogy, 1997, 8, 1301-1310.	0.4	48
129	Nonlinear elastic behaviour of SrTiO ₃ crystals in the quantum paraelectric regime. Europhysics Letters, 2000, 50, 41-47.	0.7	47
130	Overview of the origin of tweed texture. Phase Transitions, 1994, 52, 77-83.	0.6	46
131	Mechanical resonance of the austenite/martensite interface and the pinning of the martensitic microstructures by dislocations in Cu . Physical Review B, 2009, 80, .	1.1	46
132	First-principles reinvestigation of bulk WO_3 . Physical Review B, 2016, 94, .	1.1	46
133	Theory and computer simulation of tweed texture. Phase Transitions, 1994, 48, 1-13.	0.6	45
134	Large swelling and percolation in irradiated zircon. Journal of Physics Condensed Matter, 2003, 15, L1-L7.	0.7	45
135	Low-temperature infrared spectroscopic study of OH-stretching modes in kaolinite and dickite. American Mineralogist, 2010, 95, 1257-1266.	0.9	45
136	High Junction and Twin Boundary Densities in Driven Dynamical Systems. Advanced Materials, 2012, 24, 5385-5389.	11.1	45
137	Reproductive precursor behavior in PbSe $\text{TaO}_{0.5}$. Physical Review B, 2016, 94, .	1.1	45
138	Direct observation of polar tweed in LaAlO_3 . Scientific Reports, 2016, 6, 27193.	1.6	45
139	Time-dependent Landau theory for order/disorder processes in minerals. Mineralogical Magazine, 1989, 53, 483-504.	0.6	45
140	Small-polaron absorption in $\text{W}_x\text{Mo}_{1-x}\text{O}_3$. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1981, 43, 105-114.	0.6	44
141	Predicting failure: acoustic emission of berlinite under compression. Journal of Physics Condensed Matter, 2014, 26, 275401.	0.7	44
142	Collapsing minerals: Crackling noise of sandstone and coal, and the predictability of mining accidents. American Mineralogist, 2016, 101, 2751-2758.	0.9	44
143	Hard mode infrared spectroscopy of plagioclase feldspars. European Journal of Mineralogy, 1999, 11, 7-22.	0.4	44
144	Structural phase transition near 825 K in titanite; evidence from infrared spectroscopic observations. American Mineralogist, 1997, 82, 30-35.	0.9	44

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145	Raman spectroscopic investigation of the order parameter behaviour in hypersolvus alkali feldspar: Displacive phase transition and evidence for Na-K site ordering. <i>Physics and Chemistry of Minerals</i> , 1986, 13, 340-346.	0.3	43
146	An infrared spectroscopic study of the internal modes of sodium nitrate: implications for the structural phase transition. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 5517-5527.	0.7	43
147	X-ray analysis of mesoscopic twin structures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1996, 354, 2815-2845.	1.6	43
148	Ferroelectric Bloch-line switching: A paradigm for memory devices?. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	43
149	Direct observation of ferroelasticity in $\text{Pb}_3(\text{PO}_4)_2$ and $\text{Pb}_3(\text{VO}_4)_2$. <i>Materials Research Bulletin</i> , 1976, 11, 1545-1549.	2.7	42
150	Domain wall formation in minerals: I. theory of twin boundary shapes in Na-feldspar. <i>Physics and Chemistry of Minerals</i> , 1985, 12, 132-140.	0.3	42
151	Structural states of natural potassium feldspar: An infrared spectroscopic study. <i>Physics and Chemistry of Minerals</i> , 1989, 16, 649.	0.3	42
152	The pressure-temperature phase diagram of BaTiO_3 : a macroscopic description of the low-temperature behaviour. <i>Journal of Physics Condensed Matter</i> , 2002, 14, L599-L604.	0.7	42
153	Simulating acoustic emission: The noise of collapsing domains. <i>Physical Review B</i> , 2014, 90, .	1.1	42
154	Anti-phase boundaries and phase transitions in titanite; an X-ray diffraction study. <i>American Mineralogist</i> , 1997, 82, 677-681.	0.9	41
155	Surface relaxations in hydroxyapatite. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 9829-9841.	0.7	41
156	Reinvestigation of the stepwise character of the ferroelastic phase transition in lead phosphate-arsenate, $\text{Pb}_3(\text{PO}_4)_2$ - $\text{Pb}_3(\text{AsO}_4)_2$. <i>Journal De Physique</i> , 1982, 43, 1379-1388.	1.8	41
157	A molecular dynamics study of orientational disordering in crystalline sodium nitrate. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 6523-6542.	0.7	40
158	Dynamically strained ferroelastics: Statistical behavior in elastic and plastic regimes. <i>Physical Review B</i> , 2013, 87, .	1.1	40
159	The effect of the superconducting phase transition on the near-infrared absorption of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. <i>Superconductor Science and Technology</i> , 1992, 5, 50-53.	1.8	39
160	A Theory of Ferroelectric 90 Degree Domain Wall. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 2800-2803.	0.7	39
161	Highly mobile vortex structures inside polar twin boundaries in SrTiO_3 . <i>Applied Physics Letters</i> , 2014, 104, 082907.	1.5	39
162	Avalanches in compressed Ti-Ni shape-memory porous alloys: An acoustic emission study. <i>Physical Review E</i> , 2015, 91, 060401.	0.8	39

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163	Strain-controlled thermal conductivity in ferroic twinned films. <i>Scientific Reports</i> , 2014, 4, 6375.	1.6	39
164	A new type of electro-optic effect in semiconducting WO ₃ . <i>Journal of Applied Crystallography</i> , 1974, 7, 615-617.	1.9	38
165	Tweed microstructures: Experimental observations and some theoretical models. <i>Phase Transitions</i> , 1994, 48, 85-105.	0.6	38
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